

CLAIMS

1. An uninterruptible power supply (UPS) for providing AC power to a load in a local area network, the local area network including at least one computing device,
5 the UPS comprising:
 - an input configured to receive an AC power connector and to receive AC power through the AC power connector;
 - an output configured to couple to another AC power connector and to provide AC power to the load through the another AC power connector;
- 10 a DC voltage source configured to provide DC power, the DC voltage source including an energy storage device;
 - an inverter coupled to the DC voltage source and configured to receive DC power from the DC voltage source and to convert the received DC power to AC power;
 - 15 a transfer switch coupled to the input and to the inverter and configured to selectively couple one of the input and the inverter to the output to provide AC power to the output;
 - a first controller coupled to the transfer switch and configured to control the transfer switch to selectively couple one of the input and the inverter to the output;
 - a network interface coupled to the first controller and configured to communicate
20 with the computing device via the network and to communicate with the first controller to transfer data between the first controller and the computing device and to provide commands from the computing device to the first controller; and
 - 25 a housing containing the input, the output, the DC voltage source, the inverter, the transfer switch, the first controller, and the network interface, the housing including a chassis that is configured to be mounted to a wall and to support the UPS when mounted to a vertical wall.

2. The UPS of claim 1 wherein the chassis includes a base configured to selectively couple to a fastener connected to the wall, a material and a thickness of the base being adapted to support a weight of the UPS when the UPS is mounted to the wall.

5 3. The UPS of claim 2 wherein the base is configured to support the UPS while coupled to only one fastener attached to the wall through a mounting arrangement of the base.

10 4. The UPS of claim 3 wherein the mounting arrangement comprises a portion of the base defining an aperture shaped to receive and to retain the fastener.

5. The UPS of claim 1 further comprising:
a second controller coupled to the first controller and the network interface and configured to communicate with the first controller in a first protocol
15 and to communicate with the network interface in a second protocol different from the first protocol; and
a reset device coupled to the second controller and configured to actuate a reset line of the second controller in response to be pressed.

20 6. The UPS of claim 5 wherein the housing provides a reset-device aperture that allows limited access to the reset device to inhibit accidental pressing of the reset device.

25 7. The UPS of claim 1 wherein the output includes at least one switched power outlet and wherein the first controller is configured to perform firmware instructions to process commands received by the network interface to control the at least one switched power outlet.

8. The UPS of claim 7 wherein the output includes four switched power outlets and wherein the firmware instructions are configured in one of two arrangements, in the first arrangement the firmware instructions are configured to instruct the first controller to control power to a first of the outlets, a second of the outlets, or a pair of the 5 switched power outlets depending upon a received command and to control the power by turning power off, turning power on, or cycling power depending upon the received command, and in the second arrangement the firmware instructions are configured to instruct the first controller to control power to a first set of two of the outlets, a second set of two of the outlets, or all four of the switched power outlets depending upon the 10 received command and to control the power by turning power off, turning power on, or cycling power depending upon the received command.

9. An uninterruptible power supply (UPS) for providing AC power to a load in a local area network, the local area network including at least one computing device, 15 the UPS comprising:

an input configured to receive an AC power connector and to receive AC power through the AC power connector;

an output configured to couple to another AC power connector and to provide AC power to the load through the another AC power connector;

20 a DC voltage source configured to provide DC power, the DC voltage source including an energy storage device;

an inverter coupled to the DC voltage source and configured to receive DC power from the DC voltage source and to convert the received DC power to AC power;

25 a transfer switch coupled to the input and to the inverter and configured to selectively couple one of the input and the inverter to the output to provide AC power to the output;

a first controller coupled to the transfer switch and configured to control the transfer switch to selectively couple one of the input and the inverter to the output;

a network interface coupled to the first controller and configured to communicate with the computing device via the network and to communicate with the first controller to transfer data between the first controller and the computing device and to provide commands from the computing device to the first controller, the network interface

5 including a web address to uniquely identify the UPS in the local area network; and

means for mounting the UPS to a wall and supporting the UPS when mounted to a vertical wall;

wherein the output includes at least one switched power outlet and wherein the first controller is configured to perform firmware instructions to process commands 10 received by the network interface to control the at least one switched power outlet.

10. The UPS of claim 9 wherein the mounting means includes a base configured to selectively couple to a fastener connected to the wall, a material and a thickness of the base being adapted to support a weight of the UPS when the UPS is 15 mounted to the wall.

11. The UPS of claim 10 wherein the base is configured to support the UPS while coupled to only one fastener attached to the wall through a mounting arrangement of the base.

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12. The UPS of claim 11 wherein the mounting arrangement comprises a portion of the base defining an aperture shaped to receive and to retain the fastener.

25 13. The UPS of claim 9 wherein the output includes a plurality of switched power outlets and wherein the firmware instructions are configured to instruct the first controller to control power to at least two of the outlets by turning power off, turning power on, or cycling power depending upon the received command.

14. The UPS of claim 13 wherein the output includes four switched power outlets and wherein the firmware instructions are configured in one of two arrangements, in the first arrangement the firmware instructions are configured to instruct the first controller to control power to a first of the outlets, a second of the outlets, or a pair of the outlets depending upon a received command and to control the power by turning power off, turning power on, or cycling power depending upon the received command, and in the second arrangement the firmware instructions are configured to instruct the first controller to control power to a first set of two of the outlets, a second set of two of the outlets, or all four of the switched power outlets depending upon the received command and to control the power by turning power off, turning power on, or cycling power depending upon the received command.

15. The UPS of claim 9 wherein the network interface is configured to provide HTML interface pages to the computing device to provide a user of the computing device with information regarding the UPS and to prompt the user to enter commands for the first controller.

16. The UPS of claim 9 further comprising:
a second controller coupled to the first controller and the network interface and configured to communicate with the first controller in a first protocol and to communicate with the network interface in a second protocol different from the first protocol; and
a reset device coupled to the second controller and configured to actuate a reset line of the second controller in response to be pressed.

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17. The UPS of claim 16 wherein the mounting means comprises a housing that provides a reset-device aperture that allows limited access to the reset device to inhibit accidental pressing of the reset device.

18. A computer program product for discovering an uninterruptible power supply (UPS) connected to a network, the computer program product for use with a computer connected to the network, the computer program product residing on a computer readable medium and comprising computer-readable, computer-executable instructions for causing the computer to:

- 5 send a discovery message to the network with a destination address such that the discovery message will be broadcast to multiple UPSs connected to the network;
- analyze a responsive communication from a responding UPS, the responsive communication providing a MAC address associated with the UPS; and
- 10 send an IP address-setting message to the network addressed to the responding UPS, the IP address-setting message including a designated IP address to be used by the responding UPS.

19. The computer program product of claim 18 wherein an IP address included in a payload of the IP address-setting message is configured to cause the responding UPS to delete a static IP address being used by the responding UPS, if any.

20. The computer program product of claim 18 wherein the instructions for causing the computer to send the discovery message cause the computer to send the discovery message periodically.

21. The computer program product of claim 20 wherein the instructions for causing the computer to send the discovery message cause the computer to send the discovery message approximately every five seconds.

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22. The computer program product of claim 18 wherein the designated IP address is configured to cause the UPS to turn on DHCP if DHCP is off.

23. The computer program product of claim 18 further comprising instructions for causing the computer to update a device list with device information contained in the responsive communication that is different than information stored by the computer.

5 24. The computer program product of claim 18 further comprising instructions for causing the computer to update a status indication associated with the responding UPS in accordance with status information contained in the responsive communication and to cause the computer to display indicia of the status of the responding UPS.